

# PATENT ABSTRACTS OF JAPAN

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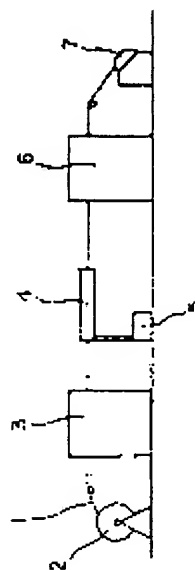
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## (54) PREPARATION OF POLYETHYLENE DRAWN BODY

(57)Abstract:

PURPOSE: To obtain a polyethylene drawn body having high elastic modulus by using polyoxymethylene as a heat-inducing body for micro-wave heating of polyethylene.

CONSTITUTION: A sample to be drawn 1 prepared by adding polyoxymethylene to high density polyethylene is passed through a micro-wave heating oven 4 and set on feed rolls 3 and draw-off rolls 6. Then, drawing starts with a specified feeding speed. While slowly increasing the output of an oscillator and the draw-off speed, the drawing is carried out at a specified draw ratio. As polyoxymethylene is used as a heat-inducing body for micro-wave heating, polyoxymethylene itself is oriented and crystallized and comes to have higher strength during micro-wave heating and drawing and it becomes thereby possible to heat and draw polyethylene by means of micro-wave heating. As the result, it is possible to obtain a polyethylene drawn body of large diameter having high elastic modulus.



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